

# ORDER

## DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

6850.7

10/21/74

**SUBJ:** VISUAL GUIDANCE LIGHTING SYSTEMS STANDARD DRAWINGS

---

1. PURPOSE. This order directs the use of the following revised standard drawings for the establishment of 4 and 6 Box VASI systems utilizing components furnished under Contract DOT-FA-73WAI-406.

<u>Number</u>	<u>Revision</u>	<u>Date</u>	<u>Title</u>
D-6043-1	A	9-19-74	4 and 6 Box Visual Approach Slope Indicator System Typical Site Layout Runway No., Airport Name, City, State.
D-6043-2	A	9-19-74	Visual Approach Slope Indicator System Standard Lamp Housing Assembly Details and Foundation Plans, Western Technical Associates Contract DOT-FA73WAI-406.
D-6043-3	A	9-19-74	4 Box Visual Approach Slope Indicator System Standard Power and Control Assembly Installation Details and Wiring Diagrams, Western Technical Associates Contract DOT-FA73-WAI-406.
D-6043-4	A	9-19-74	6 Box Visual Approach Slope Indicator System Standard Power and Control Assembly Installation Details and Wiring Diagrams, Western Technical Associates Contract DOT-FA73-WAI-406.
D-6044	A	9-19-74	Standard Low Voltage Terminal Pole 120/240 Volt Service Overhead to Underground with Pad-Mount Transformer.

2. DISTRIBUTION. This order is distributed to branch level in Airway Facilities Service, and to Division level in Systems Research & Development and Airport Services in FAA headquarters; branch level in regional Airway Facilities and Airports Divisions (except AEU); and to the Director, NAFEC

---

**Distribution:** WAF-3; WRD/AS-2  
RAF/AS-3 (except AEU); NC-1

**Initiated By:** AAF-560

and the Aeronautical Center.

3. CANCELLATIONS. This order cancels ORDER 6850.6 dated 7/31/74.
4. BACKGROUND. Drawings D-6043-1, D-6043-2, D-6043-3, D-6043-4 and D-6044 are issued to provide the proper installation of VASI equipment manufactured by Western Technical Associates under Contract DOT-FA73-WAI-406.
5. APPLICATION. Drawing 6043-1 shows typical site layouts and details for 4 and 6 Box VASI system. This drawing is to be used as a guide and check list for information that is required on the project site plan drawings. Actual siting of the system shall be in accordance with FAA Handbook 6850.2, Visual Guidance Lighting System. Drawings 6043-2 thru 4 have been developed as standard construction and electrical installation drawings. The foundation design for the lamp housing and the supports for the power and control assembly are based on a minimum safe soil bearing pressure of 3,000 psf and lateral soil pressure of 200 psf per foot. Depth of foundations footing shall be a minimum of 2'6" or one foot below local frost depth. Frost depth shall be noted on project site plan. Where the actual site soil bearing strength is less than 3,000 psf and/or the local frost depth is greater than 6'0", the foundation and support designs as shown on these drawings shall be modified as required to suit actual site conditions. Drawing 6044 shows typical low voltage terminal pole and pad-mounted transformer and is provided for use as a standard drawing when existing power source or actual site conditions dictate. Power source configurations are site determined; therefore, each service extension shall be set forth on the site layout and an appropriate service extension detailed drawing developed. These drawings shall be used for all future establishment, relocation and current construction projects for Western Technical Associates type equipment. Inquiries or comments regarding these drawings shall be directed to the Chief, Environmental Systems Division, AAF-500.
6. DISTRIBUTION OF DRAWINGS. A reproducible copy of each drawing is being forwarded to NAFEC; each region (except AEU), Attention: Airway Facilities Division; and two copies of each drawing to the Aeronautical Center, Attention: Chief, FAA Depot. Additional copies may be obtained from the Environmental Systems Division, Attention: AAF-510.

  
J. W. COCHRAN  
Director, Airway Facilities Service